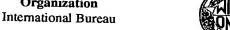
(19) World Intellectual Property Organization International Bureau







(43) International Publication Date 5 August 2004 (05.08.2004)

PCT

(10) International Publication Number WO 2004/06652 A1

(51) International Patent Classification7:

H04Q 7/32

(21) International Application Number:

PCT/FI2003/000047

- (22) International Filing Date: 21 January 2003 (21.01.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

- (71) Applicant (for all designated States except US): NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): VÄRE, Jani [FI/FI]; Markulantie 121 A 6, FIN-20320 Turku (FI). PUPUTTI, Matti [FI/FI]; Uudenmaankatu 12 B 35, FIN-20500 Turku (FI). PEKONEN, Harri [FI/FI]; Upalingontie 64, FIN-21260 Raisio (FI). LAIHO, Kimmo [FI/FI]; Ojarinne 24, FIN-20810 Turku (FI). AURANEN, Tommi [FI/FI]; Kaivokatu 10 B 34, FIN-20520 Turku (FI).

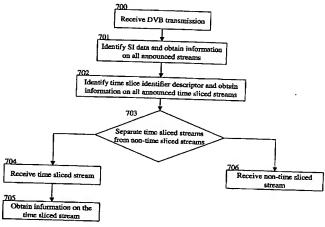
- (74) Agent: BERGGREN OY AB; P. O. Box 16, FIN-00101 Helsinki (FI).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD, SYSTEM AND NETWORK ENTITY FOR PROVIDING DIGITAL BROADBAND TRANSMISSION



(57) Abstract: A method, a system, a transmitter and a receiver for identification of a time sliced elementary streams using PSI/SI tables. This identification provides a way to separate time-sliced elementary stream from non-time-sliced elementary streams by defining two descriptors in PSI/SI tables. A time slice identifier descriptor is defined, which can be used to identify elementary streams which are time sliced. This descriptor is also used to provide additional information about the transmitted elementary streams. The invention provides a way to announce additional information of the time sliced elementary streams via PSI/SI tables. Additionally, it provides a mechanism to categorize single elementary stream(s) as non-time sliced and time sliced. A way to identify time sliced elementary streams carried over DVB networks is disclosed and providing additional information on those streams. This can be done by using the time slice identifier descriptor. The descriptor can be used at least in Network Information Table (NIT), Program Map Table (PMT) and IP/MAC Notification Table (INT) tables. Time slicing provides a way to save power in the receiver in broadband transmission.